

Page 1, please amend the last paragraph
beginning on line 28 as follows:

However, regarding the steel sheet treated by a black color treatment as described in the item (1), an adhesive characteristic between a black resin coating layer and a surface of the steel sheet is weak. When the surface of the steel sheet is damaged by press processing, the steel sheet would be exposed. Therefore, the resin coating layer should be thicker. It would be demerit in view of production costs. Regarding the steel sheet as described in the item (2), in order to reinforce corrosion resistance, there is a black colored steel sheet with a surface treatment (Japanese Patent Laid-Open Publication No. 63-60886) wherein a chromate layer and a transparent/translucent organic resin layer is provided on a black colored galvanized steel plate. However, depending on the treatment condition of the chromate layer, there is a danger of deteriorating a black ornamental effect. Further, there is no actual suggestion about the composition of such a resin layer in view of improving an adhesive characteristic of the resin layer with respect to a galvanized layer.

Page 2, please amend the second paragraph
beginning on line 24 as follows:

3 However, a black ornament effect is damaged by
flaws on the surface of a steel sheet caused by lack of
smoothing of the steel sheet when the patrone cap and so
on made of the steel sheet is caulked. It would become
difficult to reduce the corrosion resistance by exposing
the groundwork of the steel plate.

Page 3, please amend the first paragraph as
follows:

34 A feature of a resin coated steel sheet
according to the present invention is the combination of
a galvanized alloy steel sheet and an organic resin layer
formed on a surface of the galvanized alloy steel plate,
wherein the galvanized alloy plating is formed on at
least one surface of a steel sheet and treated by an
anodic/cathodic treatment in acid solution or an
immersion treatment in solution including nitride ion, so
that a surface of a galvanized alloy steel sheet is
colored.

Page 3, please amend the second paragraph
beginning on line 9 as follows:

A feature of a resin coated steel sheet
according to the present invention is the combination of
a galvanized alloy sheet and an organic resin layer
formed on a surface of the galvanized alloy steel plate,
wherein galvanized alloy plating is formed on at least
one surface of a steel sheet and treated by an
anodic/cathodic treatment in acid solution or an
immersion treatment in solution including nitride ion.
By this process, a surface of a galvanized alloy steel
sheet is colored and the organic resin layer includes
colloidal silica and/or an agent for providing a
lubricant function at a surface of the organic resin
layer.

Page 3, please amend the third paragraph
beginning on line 20 as follows:

In a resin coated steel sheet described above,
it is preferable that resin formed as the organic resin
layer is a resin at least selected from the group of
urethane system resins, polyester system resins, acrylic
system resins and olefin system resins.

Page 4, please amend the seventh paragraph
beginning on line 26 as follows:

B7
In a resin coated steel sheet according to the
present invention as shown in Fig. 1, a galvanized alloy
layer is treated by an electrolytic treatment selected
from an electrolytic treatment such as an anodic
treatment and a cathodic treatment in an acid solution or
an immersion treatment in a solution including nitric ion
so as to form a colored layer 2 on at least one surface
of the steel sheet 1. An organic resin layer 3 is formed
on a surface of the colored layer 2.

Page 5, please amend the last paragraph
beginning on line 32 as follows:

B7
In general, a normal cold rolled steel sheet is
used as a substrate. A cold rolled steel sheet of which
a base is extreme medium/low carbon aluminum steel
molding is used. Further, extreme low carbon steel with
carbon of equal or less than 0.003 wt% and a cold rolled
steel sheet made of non-aging steel into which niobium,
titanium and others are added are used. Chromium steel
including chromium of 3 to 18 wt% or a stainless steel
(nickel of 1 to 10 wt% may be included) is preferably
used.

Page 6, please amend the third paragraph
beginning on line 22 as follows:

B9
If the steel sheet 1 is electrolytically plated
in a plating bath mainly including zinc in which water-
soluble salts of cobalt, nickel and/or molybdenum are
also included, one can obtain a galvanized alloy plating
layer 10 in which cobalt, nickel and/or molybdenum is co-
deposited or dispersed.

Page 7, please amend the first paragraph
beginning on line 16 as follows:

B10
In order to improve the corrosion resistance
and the adhesive characteristic with respect to the
organic resin layer 3, although a chromate treatment for
forming a chromic hydrate oxide coating layer (including
an electrolytic chromate treatment) as an upper layer may
be used, the colored layer is apt to be solved by a
chromate treatment solution such as chromic solution and
sodium bichromate and there is a danger of deteriorating
the ornamental effect.

Page 8, please amend the second paragraph
beginning on line 5 as follows:

B11
In the case of utilizing the material for a
patrone cap, it is preferable to use a urethane system

BH Cont
resin with an individual pencil hardness of H to 6H,
tensile strength of 300 to 500 kg/cm² and extension ratio
of 250 to 450%. In such a case, the thickness of the
resin can be equal to or less than 2µm.

Page 8, please amend the third paragraph
beginning on line 10 as follows:

B12
In the case of urethane resin having the above
described characteristics, the processing characteristic
of the resin coated layer according to the present
invention would be improved so that an ornament effect of
a patrone cap after processing can be improved. If a
pencil-hardness is F or HB softer than H, the abrasion
and wear resistance become weaker in the case of
utilizing the material for a patrone cap. If the pencil-
hardness is 7H to 9H harder than 6H, the processing
characteristic becomes weaker. If the tensile strength
of the resin is less than 300 kg/cm² and the extension
ratio of the resin is less than 250%, the processing
characteristic would become weak. If the tensile
strength of the resin is more than 500 kg/cm² and the
extension ratio of the resin is more than 450%, its
effect is saturated and it is not economic in the view of
the production cost.

Page 8, please amend the last paragraph
beginning on line 36 as follows:

B13
However, in the case of utilizing these kinds of resin as a patrone cap, the characteristics thereof apt to become inferior to those of urethane system resin and flaws and unevenness of black color of the patrone cap are not noticeable. In order to have the processing characteristic as similar as that of urethane system resin, the thickness of the resin-coated layer should be increased. It is economically not desirable.

Page 10, please amend the second paragraph
beginning on line 12 as follows:

B14
In order to improve the ornamental color, that is, to a clear black color, it is preferable to add black pigment to the organic resin layer 3. In such a case, the pigment may be added in an amount equal to or more than 0.1 wt%. The process characteristic is reduced in the case that the additive amount is too much and flaws and unevenness of black color are observed. Therefore, the content ratio of the black pigment is preferably equal to or less than 30 wt%. Regarding the black pigment, one may use carbon black of which a grain diameter is 50 to 200 μm .
